

Product datasheet for **SC118193**

STAT4 (NM_003151) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAT4 (NM_003151) Human Untagged Clone
Tag:	Tag Free
Symbol:	STAT4
Synonyms:	SLEB11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003151, the custom clone sequence may differ by one or more nucleotides

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ATGTCTCAGTGGAAATCAAGTCCAACAGTTAGAAATCAAGTTTTGGAGCAGGTGGATCAATTCTATGATG
ACAACCTTCCCATGGAAATTCGGCATCTGTTGGCCCAATGGATTGAAAAATCAAGACTGGGAGGCAGCTTC
TAACAATGAAACCATGGCAACGATTCTTCTTCAAACCTGTTAATAACAACCTGGATGAACAGTTAGGTCGT
GTTTCCAAGAGAAAAACCTACTCTTGATACACAATCTAAAAAGAATTAGGAAGTCCCTCAGGGAAAAAT
TTCATGGAAATCCAATGCATGTAGCTGTGGTTATTTCAAACCTGTTAAGGGAAGAGAGGAGAATATTGGC
TGCAGCCAACATGCCTGTCCAGGGGCTCTAGAGAAATCCTTACAAAGTCTTTCAGTTTCAGAAAGACAG
AGGAATGTGGAGCACAAAGTGGCTGCCATTAACAAACAGTGTGCAGATGACAGAACAAGATACCAAACTACT
TAGAAGATCTGCAAGACGAATTTGACTACAGGTATAAAACAATTCAGACAATGGATCAGAGTGACAAGAA
TAGTGCCATGGTGAATCAGGAAGTTTTGACTGACAGGTATAAAACAATTCAGACAATGGATCAGAGTGACAAGAA
GAGGCTCTCAGTAAAATGACCCAAATCATCCATGAGACAGACCTGTTAATGAACACCATGCTCATAGAAG
AGCTGCAAGACTGGAAGCGGCGCAGCAAATCGCCTGCATCGGGGTCCACTCCACAATGGGCTCGACCA
GCTTCAGAACTGCTTTACACTATTGGCAGAAAGCTTTTTCAAACCTGAGAAGGCAATTGGAGAAACTAGAG
GAGCAATCTACAAAATGACATATGAAGGTGATCCCATCCAATGCAAAGAACTCACATGCTAGAAAGAG
TCACCTTCTTGATCTACAACCTTTTCAAGAACTCATTTGTGGTTGAGCGACAGCCATGTATGCCAACCCA
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GATTTGTACTTTGTGGAATAATGTCAAAGCCATGTCTATTGAAGAATCTTCCAATGGGAGTCTCTCAGT
AGAATTCGACATTTGCAACCAAGGAAATGAAGTCCAGTGTGGAGGTAAGGAAATGAGGGCTGTCAC
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GTTCTGCAAGGAACATTTACCTGGTAAATCATTTACCTTTGGACATGGCTTGAAGCAATATTGGATCTA
ATTAAGAAACACATTTCCCTTTGGATTGATGGGTATGTCATGGGCTTTGTTAGCAAAGAGAAGGAAC
GGCTGTTGCTAAAGGATAAAATGCCTGGCACCTTTTTATTAAGATTGAGTAAAGCCATCTCGGAGGAAT
AACTTTCACCTGGTGGACCATTTGAAAGTGGGGAAGTGAAGTCCACTCTGTAGAACCCTACAATAAA
GGCCGGTTGTCTGCTCTGCCATTCGCTGACATCCTGCGAGACTACAAAGTTATTATGGCTGAAAACATTC
CTGAAAACCTCTGAAGTACCTATATCCTGACATTTCCAAAGACAAGCCTTCGGTAAACACTACAGCTC
TCAGCCTTGCGAAGTTTCAAGACCAACAGAAAGGGGTGACAAAGGTTATGTTCTTCTGTTTTATCCCC
ATCTCAACAATCCGAAGTGATTCACAGAGCCACATTTCCATCAGACCTTCTTCCCATGTCTCCAAGTG
TGTATGCGGTGTTGAGAGAAAACCTGAGTCCACAACAATTGAACTGCAATGAAGTCTCCTTATTCTGC
TGAATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003151 unedited
 NGGTTTCGTTTTGTATACGACTCCTATAGGGCGGCCGCGATTCCGGCACGAGGGGGACACT
 CACCCCTTGGAAACCAGCTGCCATATTGTGAGGAAGCTCAAGCCACAGGGAAGGCCATGTG
 TAGGTGTTGGGCTGATGGTGCCAGCTGAGGACCTGGTCTACTGCCAGTACAACCTATAT
 CAAGCATGTGAGTTGGCAGCTTTTGAAGAAGCTCCAGCCACAGTCACTGACCACGCTGC
 CTGAGAGACCTAGAGAGAAAACTAGCTGAGCCAAATCAGGCCCGGAAACCATGTCTCA
 GTGGAATCAAGTCCAACAGTTAGAAATCAAGTTTTTGGAGCAGGTGGATCAATTCATGA
 TGACAACATTTCCCATGGAAATTCGGCATCTGTTGGCCCAATGGATTGAAAATCAAGACTG
 GGAGGCAGCTTCTAACAATGAAACCATGGCAACGATTCTTCTTCAAACTTGTTAATACA
 ACTGGATGAACAGTTAGGTGCTGTTTCCAAAGAGAAAAACCTACTCTTGATACACAATCT
 AAAAAGAATTAGGAAGTCTTCCAGGAAAATTCATGGAAATCCAATGCATGTAGCTGT
 GGTTATTTCAAAGTGTAAAGGGAAGAGAGGAGAATATTGGCTGCAGCCAACATGCCTGT
 CCAGNGGCCTCTAGAGAAATCCTTACAAAGTCTTCAGTTTCAGAAAGACAGAGGAATGT
 GGAGCACAAAGTGGCTGCCATTAACAAACAGTGTGCAGATGACAGAACAAAGATACCANATA
 CTTAGNAAGATCTGCAAGACGAANTTGACTACNAGGTATANACAATTCAGACCATGGATC
 AGAGTGACAAGAATAGTCCCATGGTGATCCAAGNAAGTTTTGACTGTCAGNAAATGCTT
 AACAGCCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003151 unedited
 GGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTCTGTTAATATTGTTATTAACAC
 TGGTTTCTAAAGTTGTCTTATCTTGAAGTTTATCTGAAGCTTTGGTTTCAAGCATTTT
 AGTCACAACACTCCCAATTGAGGAGTGCCACGGGAGTGTGAAGAGAGCTTCAGATGTCAA
 ACATTTCCTAGAACCTGGTATTTACAAAGCTGAAGAAATAAAATGTGGTTATTGGGCAAA
 GAACAGTCTTTAACTTTTTTCATTTGCTTCCTTTCTTGGTGCGTCAGAGTTTATCCTGTC
 ATTCAGCAGAATAAGGAGACTTCATTGCAGTTTCAATTGTTGTGGGACTCAGTTTTTCTC
 TCAACACCCGATACACACTTGGAGACATGGGAAGAAGGCTGTGATGGAGAATGTGGCTCTG
 TTGAATCACTTCGGATTGTTGAGATGGGATAAAAACAGAAGGAACATAACCTTTGTCAC
 CCCTTTCTGTTGGTCTTGAACTTCGCAAGGCTGAGAGCTGTAGTGTTCACGAAGGCTT
 TGCTTTGGGAATGTGAGGATATAGTACTTCAGAGGGTTTTTCAGGAATGTTTTACGCCA
 TAATAACTTTGTAGTCTCGCAGGATGTCAGCGAATGGCAGAGCAGACAACCGGCCTTTAT
 TGTANGTTCTACAGAGTGGAATCTCACTTCCCCACTTTTCAGAATGGTCCACCCCAAGTGA
 AAAGTATTCCTCCGAGATGGCTTCACTGAATCTTATAAAAAGGTGCCAGGCATTTTATC
 CTTTAGCACAGCCGTTCTTCTCTTTGCTAACAAAGCCCATGACATACCCATCAATCCAA
 AGGGAAGAATGTNGTTNCTAAATAGATCCAATATGCTCCAGCCTGTCCAAAGTAATGATT
 ACCAGGTAATGTTCTGCAAACTGGGCCGGTGAGTGACATACTGTACTTGATGACTGAAGC
 TTCCTGCACTTGGAGTGACTGAGTAA

Restriction Sites:

NotI-NotI

ACCN:

NM_003151

Insert Size:

3070 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_003151.2 , NP_003142.1
RefSeq Size:	2761 bp
RefSeq ORF:	2247 bp
Locus ID:	6775
UniProt ID:	Q14765
Cytogenetics:	2q32.2-q32.3
Domains:	SH2, STAT
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Jak-STAT signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells. Mutations in this gene may be associated with systemic lupus erythematosus and rheumatoid arthritis. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Aug 2011]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p>